

# SPECIFICATION

## COMMERCIALY AVAILABLE

**CERAMIC BAND PASS FILTER**  
**PART NUMBER: CF-18000906**

9/6/16 - Updated footprint & format.  
 03/31/2025 – Updated footprint (back resistor removed) & formatting.

ISSUED	CHECKED	CHECKED	CHECKED	APPROVED
3/28/2006**				
9/6/16 <sup>(kn)</sup>				
03/31/2025 <sup>(asm)</sup>				

***FILTRONETICS Inc***

### 1. APPLICATION

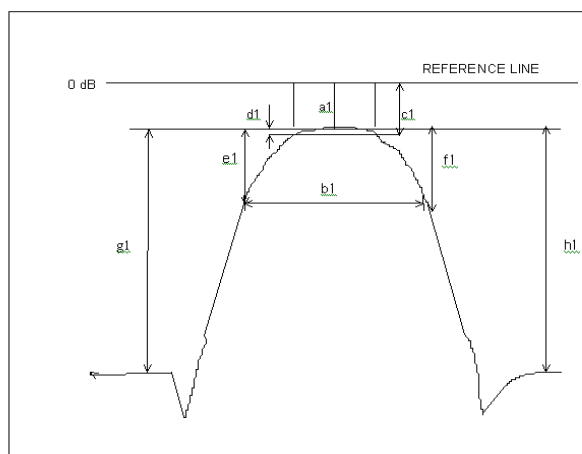
THIS SPECIFICATION APPLIES TO A BAND PASS FILTER, USING DIELECTRIC RESONATORS.

### 2. PART NUMBER: CF-18000906

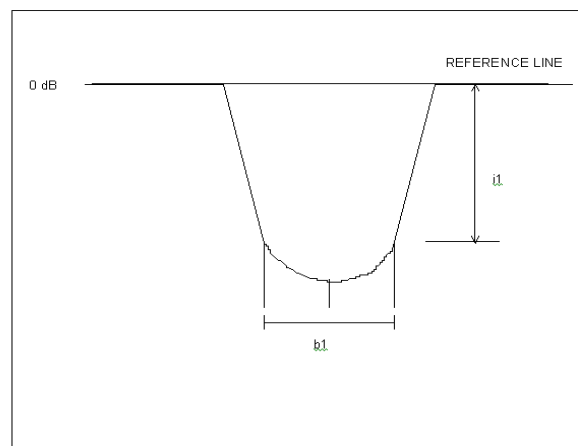
### 3. SPECIFICATIONS:

NO	ITEMS		Ref.	SPECIFICATION
1	Center Frequency (Fo)		a1	1800 MHz
2	3.0 dB Pass Band Width (=PB)		b1	90MHz +/- 9%
3	Insertion Loss	AT Fo	-	2.7 dB max
4	Attenuation	20DB BAND WIDTH	-	140MHz Max
		50DB BAND WIDTH	-	220MHz Max
5	Return Loss	AT Fo+/-36MHz	-	12 dB Min
6	Impedance		-	50Ω
7	Maximum Input Power		-	1 W (+30dBm)
8	Operating Temperature Range		-	-30 - +75°C
9	Storage Temperature Range		-	-40 - +85°C

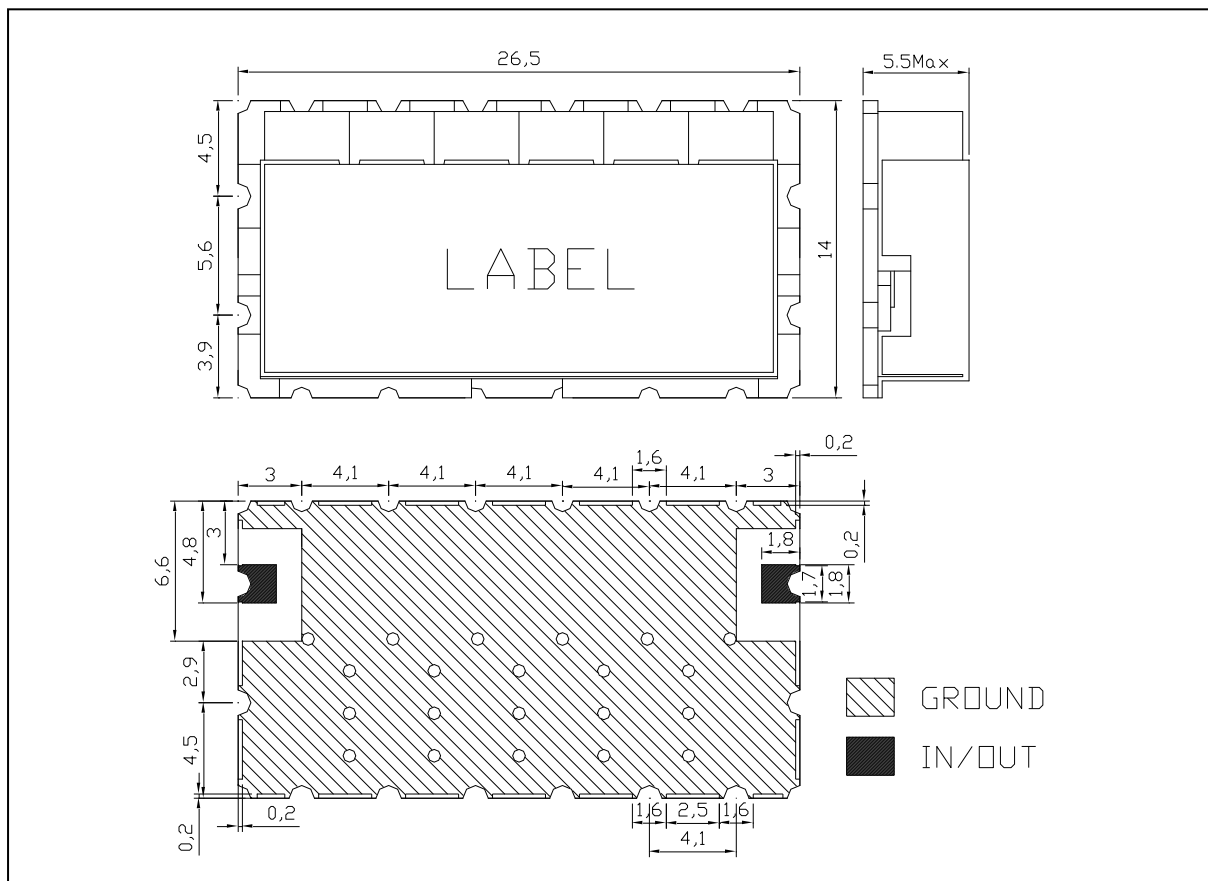
**S21 LOG MAG NETWORK ANALYZER**



**S11 SWR NETWORK ANALYZER**



**4. DIMENSIONS:**



**MATERIAL SPECIFICATION**

1. PCB
  - 1) MATERIAL: FR4
  - 2) TERMINALS: Au PLATED
1. METAL CASE
  - 1) COVER MATERIAL: Brass ( Sn OR Ni PLATED)
2. RESONATOR : Dielectric Resonator
  - 1) COATING MATERIAL: Ag
  - 2) Number of Poles : 6 Poles
3. ROHS Compliant.

UNIT: MM  
 TOLERANCE: +/-0.5MM  
 IN/OUT LAND : +/-0.3MM

**LABEL MARKING**

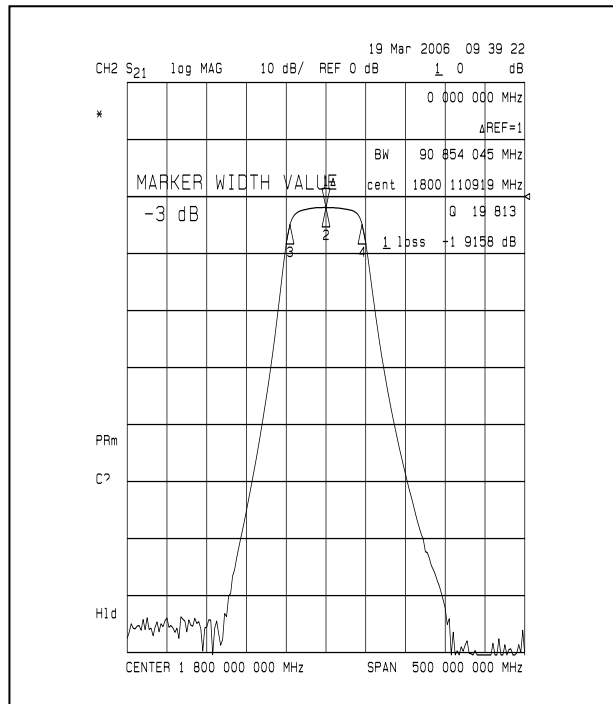
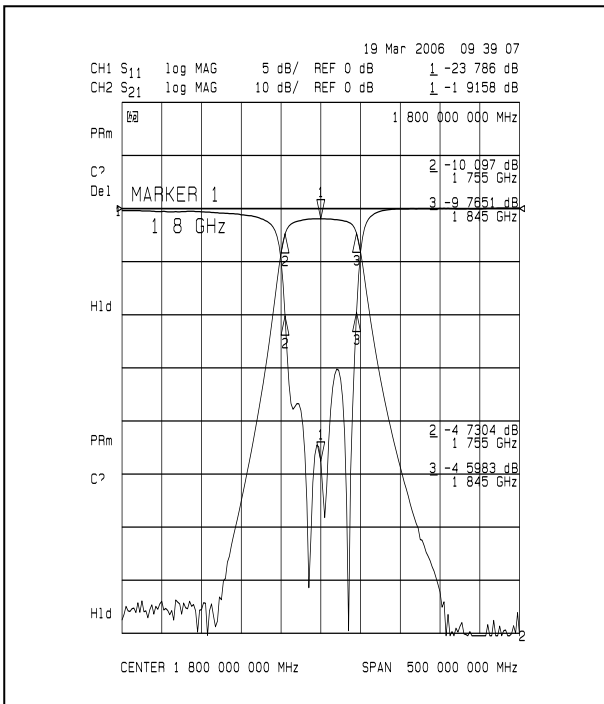
Filtronetics Inc  
 CF-18000906  
 Date Code: YYWW

**CAUTIONS:**

1. When handling products, be careful not to damage the outer-electrode.
2. When handling products be careful not to touch the outer-electrode with bare hands or solderability is reduced.
3. Do not apply excessive pressure or shock to product in handling or in transportation or damage to the ceramic filters may result.

### 5. RESPONSE PLOTS:

#### S21 & S11 (INSERTION LOSS, RETURN LOSS, 3DB BAND WIDTH)



#### S21( ATTENUATION )

